

MANUFACTURE OF RUTHENIUM CATALYST

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Abstract

PURPOSE:To manufacture inexpensively the titled Ru catalyst showing high catalytic activity in the steam-reforming reaction of hydrocarbon or the like by adsorbing organic substances on a carrier previously and depositing ruthenate thereon.

CONSTITUTION:Organic substances such as lower alcohol are previously saturated and adsorbed on a carrier of alumina or the like and ruthenate such as sodium ruthenate or potassium ruthenate is deposited thereon. It is reduced to RuO₂ by performing the decomposition and reduction of the ruthenate by means of organic substances simultaneously with the deposition of the ruthenate. Then, the harmful metallic atoms such as Na and K are removed by washing it with water till the pH is reached to almost 8 and it is dried to manufacture the catalyst. By this method, the removal of chlorine being catalytic poison and metallic atoms such as Na or K which give adverse effect to the catalyst performance is made easy and the catalyst performance is improved and the Ru catalyst is inexpensively manufactured.

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